

FIG. 1A

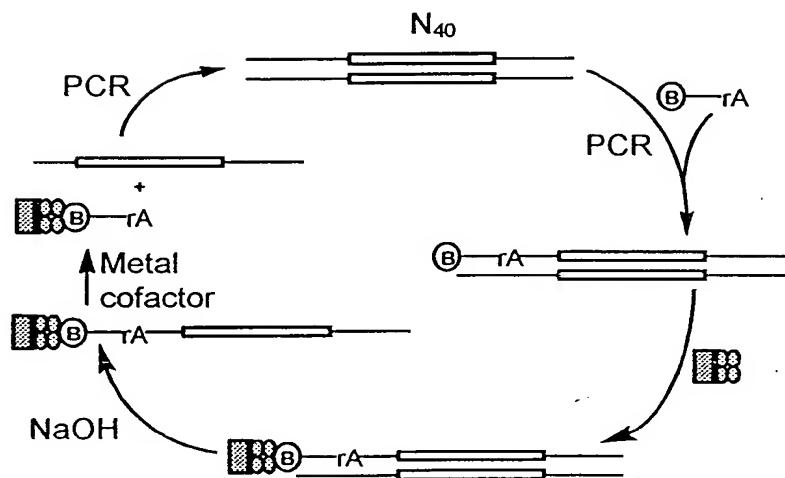


FIG. 1B

Zn-DNA

5' - *CTGCAGAATTCTAATACGACTCACTATAGGAAGAGATGGCGAC*

Class I (used for reselection)

#5, 6, 7, 9, 21, 25, 29, 43, 47

ATCTC TTTTGTCAGCGACTCGAAATAGTGTGTTGAAGCAGCTCTA *GTGAC*

Class II

#2, 10, 17, 20, 24, 31, 37, 39

AGCCA -TAGTTCTACCAGCGGTTCGAAATAGTGAAGTGTCGTGA CTATC

#3 GGCCA -TAGTTCTACCAGCGGTTCGAAATAGTGAATGTTCGTGA CTATC

#4 GCCAGATTAGTTCTACCAGCGGTTCGAAATAGTGAATGTTCGTGA CTATC

Class III

#15, 18, 19, 34, 35, 38, 50

ATCTC CAAAGATGCCAGCATGCTATTCTCCGAGCCGGTCCGAAATA *GTGAC*

#14 ATCTC CAAAGATGCCTGCATGCTATTCTCCGAGCCGGTCCGAAATA *GTGAC*

Unclassified

#36 ATCTC GTCCTCCGAGCCGGTCCGAAATAGTCAGGTGTTCTATTCGG *GTGAC*

#40 ATCAC CTTCTCCGAGCCGGTCCGAAATAGTAGTTTAGTATATCT *GTGAC*

#42 ATCTC AGGTGTTGGCTGCTCTCGCGGTGGCGAGAGGTAGGGTGAT *GTGAC*

GGTAAGCTTGGCAC-3'

FIG. 2

Co-DNA

5'-CTGCAGAATTCTAATACGACGCACTAGGAAGAGATGGCGAC

Class I (used for reselection)

#18, 15, 34

#18 ATCTC TTGTATTAGCTACACTGTTAGTGGATCGGGCTAATCTCG GTGAC
#15 GTCTC TTGTATTAGCTACACTGTTAGTGGATCGGGCTAATCTCG GTGAC
#25 ATCTC CTGTATTAGCTACACTGTTAGTGGATCGGGCTAATCTCG GTGAC
#16 ATCTC TTGTATTAGCTACACTGTTAGTGGGAACGTTATCAT-TCG GTGAC

Class II

#2, 4, 7, 23, 26

#2 ATCTC TTGACCCAAGAAGGGGTGTCAATCTAATCCGT CAACCATG
#8 ATCTC TTGACCCAAGAAGGGGTGTCAATCAAATCCGT CAACCATG
#17 ATCTC TTGACCCAAGAAGGGGTGTCAATCTAATCCGTACAACCAG ACAGTAAG
#27 ATCTC TTGACCCAAGAAGGGGTGTCAATCTAATCCGT CAAGGATG CGGTAAG

Class III

#5 ATCTC AGGTGTTGGCTGCTCCCGCGGTGGCGGGAGGTAGGGTGAT GTGAC
#11 ATCTC AGGTGTTGGCATCTCCCGCGGTGGCGAGAGGTAGGGTGAT GTGAC
#6 ATCTC AGGTGTTGGCTGCTCGCGGTGGCGAGAGGTAGGGTCAT GTGAC

Unclassified

#21 ATCTC GCAGTCGAAGCTTCACTGTTAGTGCAGGGTAGACTTC GTGAC
#29 ATTCGTTCTGAATCTCAATGTTAGTGGACCTAGTCGTAGTCGAT GTGAC
#12 ATCTC GGAGCCAGTTAGCATAATCTTCTGAATCCTCAATGTTAGT GTGAC
#10 ATCTC GGTGTTGGCTGGATAGAGCCGGTAGGCCCTATCGTAGGGT GTGAC
#1 GTCTC TTTTGTCCCGGACTCGAAATAGTGTGTTGAAGCAGCTCTA GTGAC
#28 AGCCA TAGTTCTACCAGCGGTTCGAAATAGTGAAGTGTGACTATCG GTAA

GGTAAGCTTGGCAC-3'

FIG. 3

	1	10	20	30	40	$k_{obs} (\text{min}^{-1})$
	T	T	T	G	C	
	T	G	T	C	G	
	T	C	G	A	C	
	T	G	A	T	T	
#127						0.0996
#10						0.16
#27						0.1314
#5						0
#6,7						0.0932
#17						0.156
#22						0.108
#31						0.128/0.101
#33						0.177
#8						
#19						
#24						
#28						
#20						
#30						
#9						
#18						
#32						
#11						
#13						
#14						
#21	G	C	C	A	T	
#26	G	C	T	G	T	
#34	C	C	T	A	A	
#40	A	C	T	C	A	
#25	A	T	C	A	T	
#15	T	C	A	T	C	

FIG. 4

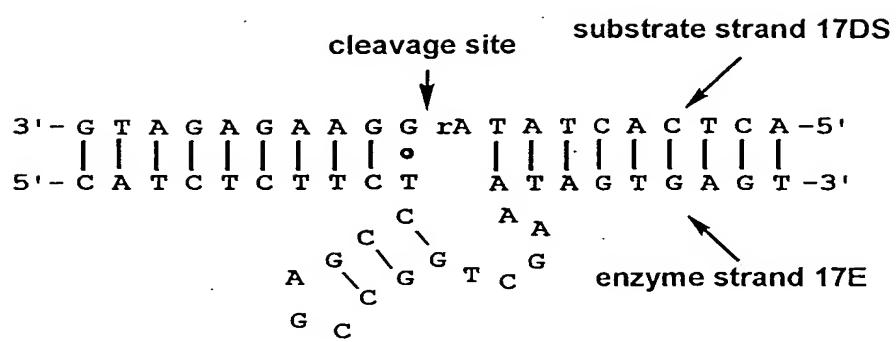


FIG. 5

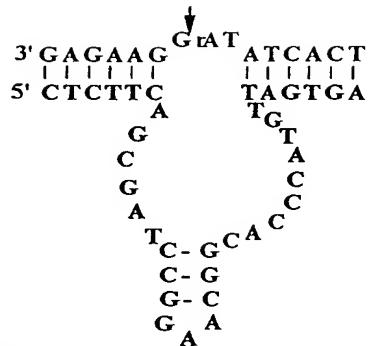


FIG. 6A

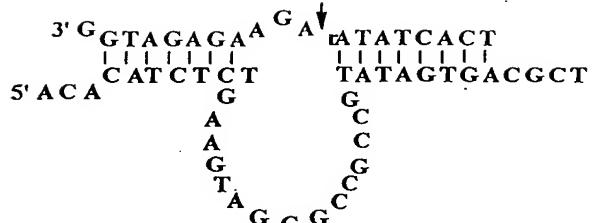


FIG. 6B

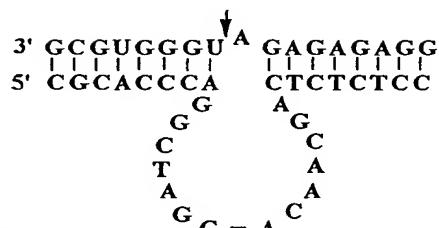


FIG. 6C

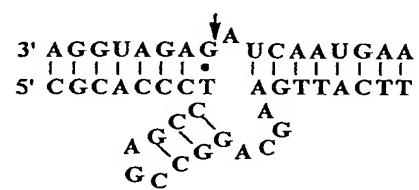


FIG. 6D

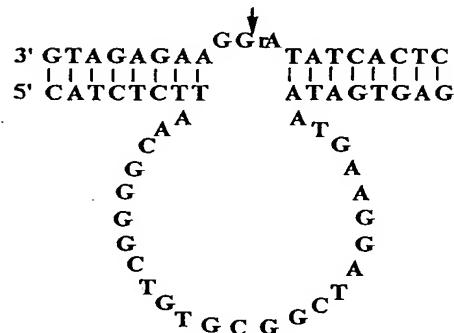


FIG. 6E

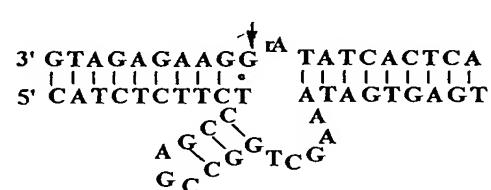


FIG. 6F

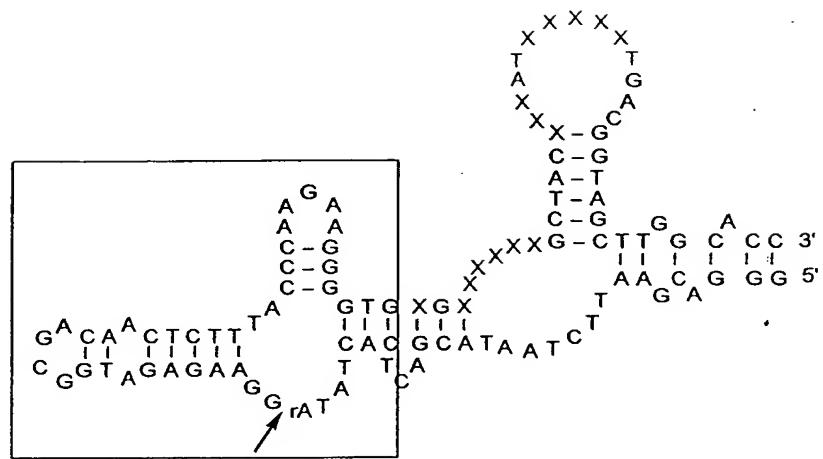


FIG. 7A

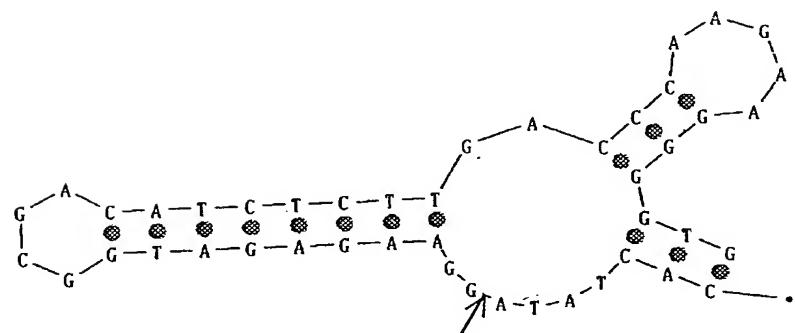


FIG. 7B

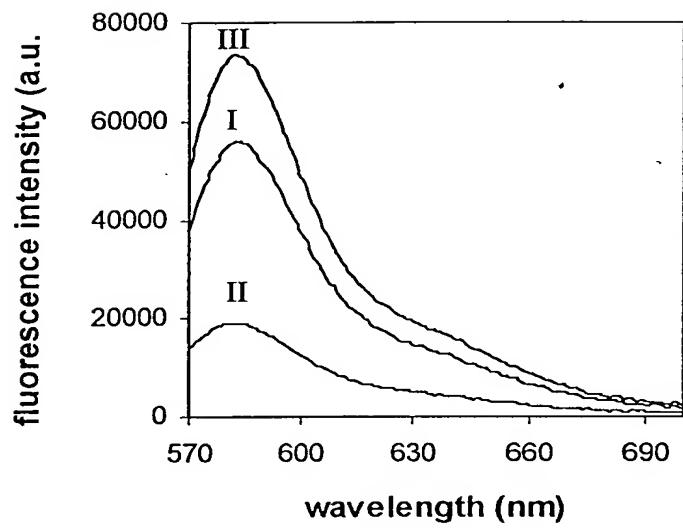
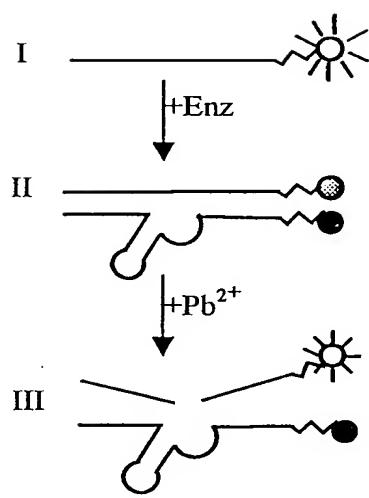


FIG. 8

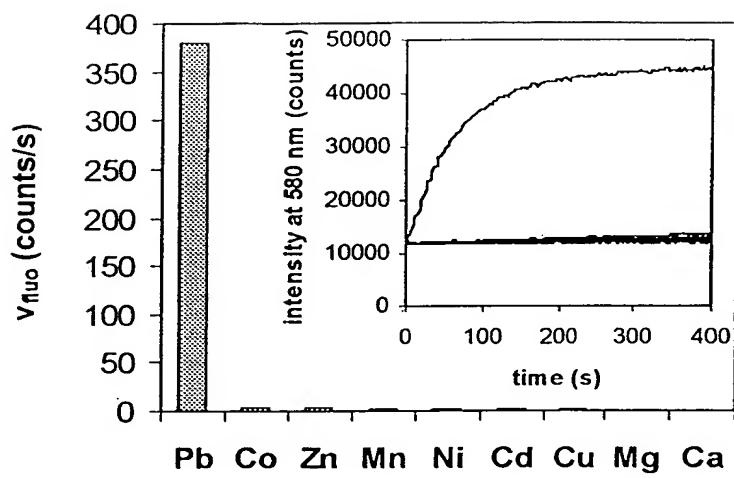


FIG. 9A

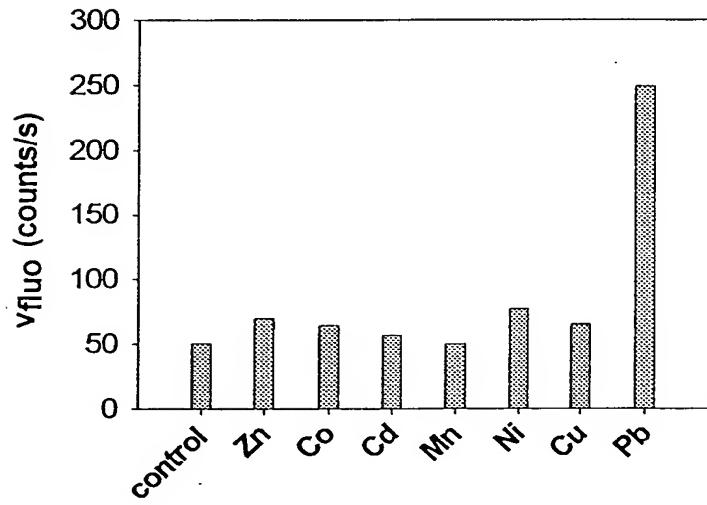


FIG. 9B

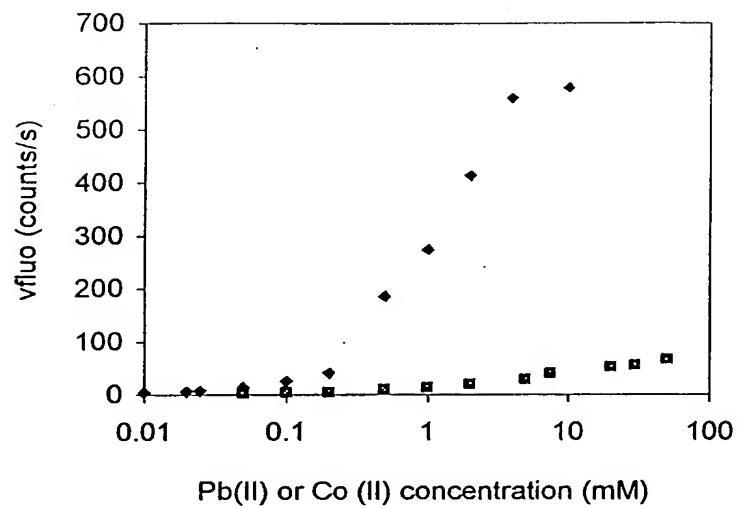


FIG. 10A

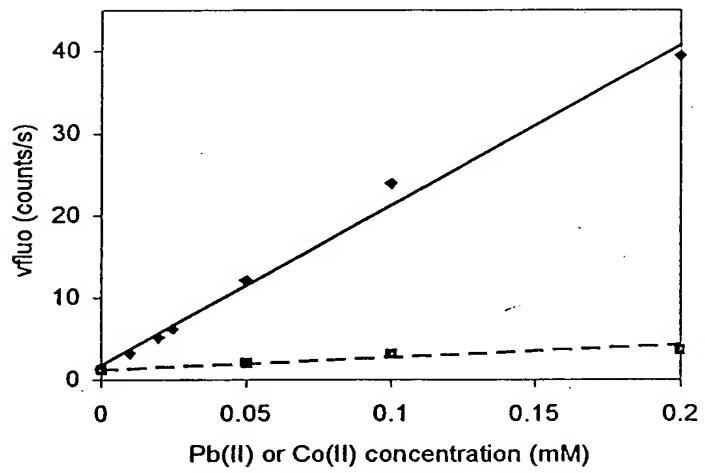


FIG. 10B

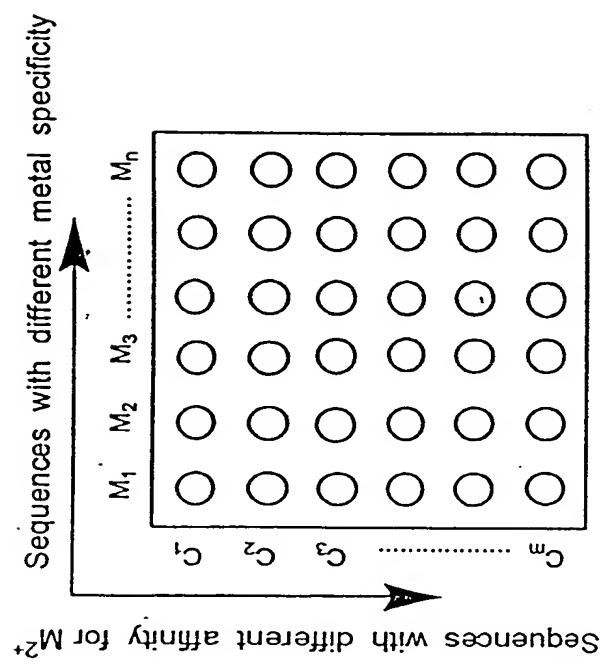


FIG. 11A

HYPOTHETICAL SAMPLE RESULT

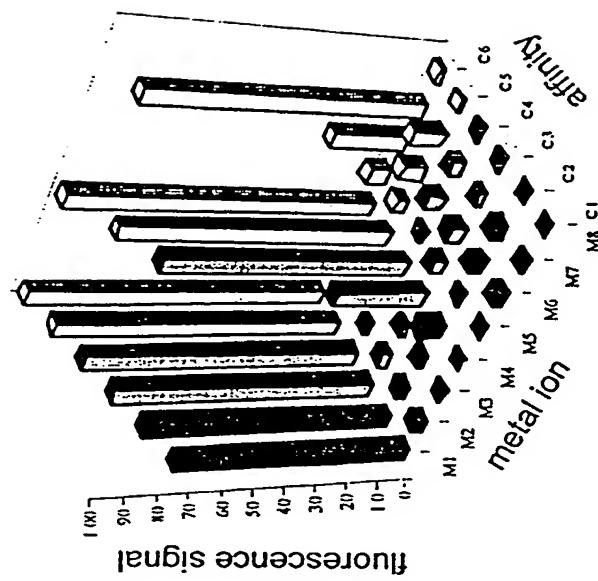


FIG. 11B